Appl. No. 10/609,998
 Docket No.

 Amdt. Dated
 Customer No.. 22917

Reply to Office Action of September 20, 2005

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) Dunn GROUP ART UNIT: 2814

APPLN. NO.: 10/743,589 EXAMINER: Hoa B. Trinh

FILED: Dec. 22, 2003 Confirmation No. 7988

TITLE: TWO-LAYER PATTERNED RESISTOR

AMENDMENT

This amendment is being filed electronically Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated February 3, 2006, please amend the aboveidentified application as follows: Appl. No. 10/609,998 Amdt. Dated

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Amendments to the Claims:

Please cancel claims 1-6

7. (Currently Amended) A method for fabricating a patterned resistor on a substrate,

comprising:

patterning two conductive end terminations on and directly contacting the surface of the

substrate;

patterning a first layer of resistive material having a first sheet resistance to have a first

width and to extend on and directly contacting the surface of the substrate between the two

conductive end terminations;

patterning a second layer of resistive material having a second sheet resistance to have

a second width, to extend between the two conductive end terminations, and to at least partially

overlay the first layer of resistive material; and

patterning one of the first and second layers of resistive material to extend onto

the two conductive end terminations, wherein one of the first and second sheet resistances is a

low sheet resistance and the other of the first and second resistances is a high sheet resistance,

and wherein a ratio of the high sheet resistance to the low sheet resistance is at least ten to

one, and wherein the one of the patterns of first and second resistive materials that has the high

sheet resistance is substantially wider than the other of the patterns of first and second resistive

material.

8.(Original) The patterned resistor according to claim 7, wherein the one of the patterns of first

and second resistive materials that has the high sheet resistance is at least 50% wider than the

other of the patterns of first and second resistive material.

9. (Original) The patterned resistor according to claim 7, wherein the one of the patterns of first

and second resistive materials that has the high sheet resistance is at least 50 microns wider

than the other of the patterns of first and second resistive material.

10. (Original) The method according to claim 7, further comprising:

applying the first layer of resistive material by one of screen printing, stenciling, direct writing,

and foil lamination; and

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applying the second layer of resistive material by one of screen printing, stenciling, direct writing, and foil lamination.

11. (Original) The method according to claim 7, wherein the patterning of the one of the first and second layers of resistive materials to extend onto the two conductive end terminations, comprises patterning the one of the first and second layers of resistive materials that has a low sheet resistance to extend onto the two conductive end terminations.

- 12. (Original) The method according to claim 7, further comprising fine tuning the patterned resistor using a fine trim kerf that is extended solely into the one of the first and second layers of resistive materials that has a high sheet resistance.
- 13. (Original) The method according to claim 12, further comprising coarse tuning the patterned resistor using a coarse trim kerf that is extended into the one of the first and second layers of resistive materials that has a low sheet resistance.

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14. (Previously Presented) A method for fabricating a patterned resistor on a substrate, comprising:

patterning two conductive end terminations on the surface of the substrate;
patterning a first layer of resistive material having a first sheet resistance to have a first
width and to extend on the surface of the substrate between the two conductive end
terminations;

patterning a second layer of resistive material having a second sheet resistance to have a second width, to extend between the two conductive end terminations, and to at least partially overlay the first layer of resistive material;

patterning one of the first and second layers of resistive material to extend onto the two conductive end terminations, wherein one of the first and second sheet resistances is a low sheet resistance and the other of the first and second resistances is a high sheet resistance, and wherein a ratio of the high sheet resistance to the low sheet resistance is at least ten to one, and wherein the one of the patterns of first and second resistive materials that has the high sheet resistance is substantially wider than the other of the patterns of first and second resistive material;

fine tuning the patterned resistor using a fine trim kerf that is extended solely into the one of the first and second layers of resistive materials that has a high sheet resistance;

coarse tuning the patterned resistor using a coarse trim kerf that is extended into the one of the first and second layers of resistive materials that has a low sheet resistance;

determining positions of edges of the patterned first and second layers of resistive materials;

using the positions of the edges to determine a large offset side of the patterned resistor that has a larger separation between the edges of the patterned first and second layers of resistive materials; and

starting the fine trim kerf at the large offset side of the patterned resistor.

15. (Original) The method according to claim 14, wherein the coarse trim kerf is cut before the fine trim kerf is cut, and wherein the determining of the larger offset side of the patterned resistor comprises:

measuring increments of the resistance change of the patterned resistor during the coarse trim kerf cut; and

determining the larger offset side from locations of substantial changes of the increments.

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Claims 16-18 are cancelled.

REMARKS

Claims 1-6 and 16-18 are cancelled by this amendment. Claim 7 is changed by this amendment. Claims 7-15 remain in the application.

Rejection of claims 7-11 under 35 U.S.C. 102(b) as being anticipated by Dunn et al. (PCT WO 00/56128) (hereinafter Dunn)

Applicants have amended claim 7 to add the phrase "and directly contacting" to the following text of claim 7: "patterning two conductive end terminations on and directly contacting the surface of the substrate; patterning a first layer of resistive material having a first sheet resistance to have a first width and to extend on and directly contacting the surface of the substrate between the two conductive end terminations". The addition of the phrase is supported by page 3, lines 4-13 and FIG. 3, which describe an embodiment of the invention. Fig. 3 clearly shows the conductive end termination 110 being on and contacting the surface of the substrate 105 and the text at lines 9-11 describes the first resistive layer being applied on the surface of the substrate.

Applicants believe that the 35 U.S.C. 102 (b) rejection of claims 7-11 is overcome by this change. Applicants believe that claims 8-13 are patentable inasmuch as they rely upon claim 7, which applicants believe to be patentable.

Applicant notes that any amendments or claim cancellations made herein and not substantively discussed above are made solely for the purposes of more clearly and particularly describing and claiming the invention, and not for purposes of overcoming art. The Examiner should infer no (i) adoption of a position with respect to patentability, (ii) change in the Applicant's position with respect to any claim or subject matter of the invention, or (iii) acquiescence in any way to any position taken by the Examiner, based on such amendments or cancellations not substantively discussed. Furthermore, any remarks made herein with respect to a given claim or amendment are intended only in the context of that specific claim or amendment, and should not be applied to other claims, amendments, or aspects of Applicant's invention.

Applicant specifically reserves the right to prosecute claims of differing and broader scope than those presented herein, in a continuation application.

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The Applicants believe that the subject application, as amended, is in condition for allowance. Such action is earnestly solicited by the Applicants.

In the event that the Examiner deems the present application non-allowable, it is requested that the Examiner telephone the Applicant's attorney or agent at the number indicated below so that the prosecution of the present case may be advanced by the clarification of any continuing rejection.

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Please charge any fees that may be due to Deposit Account 502117, Motorola, Inc. Respectfully submitted,

Docket No.

SEND CORRESPONDENCE TO:

/James Lamb/_ By: James A. Lamb Motorola, Inc. 1303 East Algonquin Road IL01/3rd Floor Attorney of Record Reg. No.: 38,529

Schaumburg, IL 60196

Customer Number: 22917 Telephone:847-576-5054 Fax No.: 847-576-3750

10/609,998 Application Number June 30, 2003 Filing Date **TRANSMITTAL** Mayoraz First Named Inventor 2677 **FORM** Group Art Unit (to be used for all correspondence after initial filing) Leonid Shapiro **Examiner Name** Total Number of Pages in this Submission Attorney Docket Number **ENCLOSURES** (check all that apply) Fee Transmittal Form After Allowance Communication to a Drawing(s) Technology Center (TC) Fee Attached Licensing-Related papers Appeal Communication to Board of Appeals and Interferences X | Amendment/Reply Petition Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final **Proprietary Information Provisional Application** Status Letter with appropriate copies Affidavits/Declaration(s) Power of Attorney, Revocation, Change of Correspondence Address Other Enclosure(s) (please identify below) **Extension of Time Request Express Abandonment Request** Terminal Disclaimer Information Disclosure Statement Request for Refund Certified Copy of Priority Documents CD, Number of CDs Response to Missing Parts/ Remarks X Facsimile Transmittal Incomplete Application Response to Missing Parts Under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or James A. Lamb 38,529 Registration No. Individual Signature Date **CERTIFICATE OF TRANSMISSION/MAILING** I hereby certify that this correspondence is being facsimile transmitted to the USPTO to facsimile number 571-273-8300 or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313 on the date listed below:

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Motorola, Inc.

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Number of Pages (including this page)

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From: James A. Lamb - 38,529

Subject: 10/609,998– Mayoraz Confirmation No.: 9973

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MESSAGE:

Enclosed herewith, please find AMENDMENT for filing in the below-identified application.

PLEASE GIVE THESE PAPERS TO:

EXAMINER: Leonid Shapiro

GROUP ART UNIT: 2677

SERIAL NO.: 10/609,998
FILED: JUNE 30, 2003
INVENTOR: MAYORAZ

Desirion FOR EXTENSION OF TIME LINDER 37 CER 1 136(2) Docket Number:							
PETITION I	FOR EXTENSION OF TIME UNDER 3	37 CFR 1.136(a)	500000000000000000000000000000000000000				
In re Application of	Mayoraz						
Application Number 10/609,998		Filed June 30, 2003					
For		XT ENTRY FOR TOUCH SENSITIVE DISPLAY					
Group Art Unit	2677	Examiner Leonid Shapiro					
This is a request under t	This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.						
The requested extension	n and appropriate non-small-entity fee are	as follows: (Check time period	od desired):				
Two M Three Four M Five M Applicant clain	Months (37 CFR 1.17(a)(2)) \$ Months (37 CFR 1.17(a)(3)) \$ Months (37 CFR 1.17(a)(4)) \$ Months (37 CFR 1.17(a)(5)) \$ ms small entity status. See 37 CFR 1.27. Ther	120.00 450.00 1020.00 1590.00 2160.00 refore, the amount shown above	e is reduced by one-half, and the				
resulting fee is	,\$ 						
A check in th	ne amount of the fee is enclosed.						
Payment by	credit card. Form PTO-2038 is attached.						
The Director h	nas already been authorized to charge fees in th	his application to a Deposit Acco	ount.				
The Director is hereby authorized to charge any fees which may be required or credit any overpayment to Deposit Account Number 502117 . The Deposit Account Name is Motorola , Inc .							
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I am the: Applic	cant/inventor						
	nee of record of the entire interest. See 37 CFI atement under 37 CFR 3.73(b) is enclosed (Fo						
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	ney or agent under 37 CFR 1.34(a) tration number if acting under 37 CFR 1.34(a)						
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847-576-5054		James A. Lamb					
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	e inventors or assignees of record of the entire		(s) are required.				
X Total of	2 form(s)are submitted						

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P. O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

"The date stamp hereon is an acknowledgment that on the date stamped, the U.S. Patent and Trademark Office received the following:"

AMENDMENT

DOCKET NO.:	GROUP ART UNIT:		2677	
APPLICANT(S)	MAYORAZ			
APPLN. NO.:	10/609,998	EXAMINER:	LEONID	SHAPIRO
FILED:	JUNE 30, 2003			
TITLE:	APPLICATION - INDEPENDENT TEXT ENTRY FOR TOUCH SENSITIVE DISPLAY			

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